

What is claimed is:

1. A method for updating individualized calibrated tone-reproduction curves, comprising the steps of:

5 (a) providing a plurality of predetermined stored calibrated tone-reproduction curves, each predetermined stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

10 (b) providing a plurality of predetermined relationships between each stored calibrated tone-reproduction curve and a reference media type and reference halftone type combination;

(c) generating a new tone-reproduction curve corresponding to a reference media type and reference halftone type combination calibration operation; and

15 (d) updating each predetermined stored calibrated tone-reproduction curves based on the newly generated tone-reproduction curve corresponding to the reference media type and reference halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve and the reference media type and reference halftone type combination.

2. The method as claimed in claim 1, further comprising the steps of:

20 (e) comparing the newly generated tone-reproduction curve corresponding to the reference media type and reference halftone type combination to the predetermined stored

calibrated tone-reproduction curve corresponding to the reference media type and reference halftone type combination; and

(f) determining if there exists a difference between the newly generated tone-reproduction curve corresponding to the reference media type and reference halftone type combination and the predetermined stored calibrated tone-reproduction curve corresponding to the reference media type and reference halftone type combination;

5 said step (d) updating each predetermined stored calibrated tone-reproduction curves based on the newly generated tone-reproduction curve corresponding to the reference media type and reference halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve and the reference media type and reference halftone type combination when a difference is 10 determined.

3. The method as claimed in claim 1, further comprising the step of:

15 (e) printing an image on a xerographic printing device using the updated predetermined stored calibrated tone-reproduction curves.

4. A method for updating individualized calibrated tone-reproduction curves, comprising the steps of:

20 (a) providing a plurality of predetermined stored calibrated tone-reproduction curves, each predetermined stored calibrated tone-reproduction curve corresponding to a distinct media type and halftone type combination;

(b) providing a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a first halftone type and a reference media type and first halftone type combination;

5 (c) providing a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a second halftone type and a reference media type and second halftone type combination;

(d) generating a new tone-reproduction curve corresponding to a reference media type and first halftone type combination calibration operation; and

10 (e) updating each predetermined stored calibrated tone-reproduction curves corresponding to the first halftone type based on the newly generated tone-reproduction curve corresponding to the reference media type and first halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to the first halftone type and the reference media type and first halftone type combination.

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5. The method as claimed in claim 4, further comprising the steps of:

(f) generating a new tone-reproduction curve corresponding to a reference media type and second halftone type combination calibration operation; and

20 (g) updating each predetermined stored calibrated tone-reproduction curves corresponding to the second halftone type based on the newly generated tone-reproduction curve corresponding to the reference media type and second halftone type combination and the plurality of predetermined relationships between each stored

calibrated tone-reproduction curve corresponding to the second halftone type and the reference media type and second halftone type combination.

6. The method as claimed in claim 4, further comprising the steps of:

5 (f) providing a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a third halftone type and a reference media type and third halftone type combination;

(g) generating a new tone-reproduction curve corresponding to a reference media type and third halftone type combination calibration operation; and

10 (h) updating each predetermined stored calibrated tone-reproduction curves corresponding to the third halftone type based on the newly generated tone-reproduction curve corresponding to the reference media type and third halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to the third halftone type and the reference media type and third halftone type combination.

15 7. The method as claimed in claim 4, further comprising the steps of:

(f) comparing the newly generated tone-reproduction curve corresponding to the reference media type and first halftone type combination to the predetermined stored calibrated tone-reproduction curve corresponding to the reference media type and first halftone type combination; and

(g) determining if there exists a difference between the newly generated tone-reproduction curve corresponding to the reference media type and first halftone type combination and the predetermined stored calibrated tone-reproduction curve corresponding to the reference media type and first halftone type combination;

5 said step (e) updating each predetermined stored calibrated tone-reproduction curves corresponding to the first halftone type based on the newly generated tone-reproduction curve corresponding to the reference media type and first halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to the first halftone type and the
10 reference media type and first halftone type combination when a difference is determined.

8. The method as claimed in claim 4, further comprising the step of:

 (f) printing an image on a xerographic printing device using the updated predetermined stored calibrated tone-reproduction curves.

15 9. A system for updating individualized calibrated tone-reproduction curves, comprising the steps of:
 a storage device to store and provide a plurality of predetermined stored calibrated tone-reproduction curves, each predetermined stored calibrated tone-reproduction curve

20 corresponding to a distinct media type and halftone type combination;

said storage device storing and providing a plurality of predetermined relationships between each stored calibrated tone-reproduction curve and a reference media type and first halftone type combination;

 tone-reproduction curve means for generating a new tone-reproduction curve
5 corresponding to a reference media type and first halftone type combination calibration operation; and

 a processor to update each predetermined stored calibrated tone-reproduction curves based on the newly generated tone-reproduction curve corresponding to the
reference media type and first halftone type combination and the plurality of
10 predetermined relationships between each stored calibrated tone-reproduction curve and the reference media type and first halftone type combination.

10. The system as claimed in claim 9, wherein:

 said processor compares the newly generated tone-reproduction curve
15 corresponding to the reference media type and first halftone type combination to the predetermined stored calibrated tone-reproduction curve corresponding to the reference media type and first halftone type combination;

 said processor determines if there exists a difference between the newly generated tone-reproduction curve corresponding to the reference media type and first halftone type
20 combination and the predetermined stored calibrated tone-reproduction curve corresponding to the reference media type and first halftone type combination; and

5 said processor updates each predetermined stored calibrated tone-reproduction curves based on the newly generated tone-reproduction curve corresponding to the reference media type and first halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve and the reference media type and first halftone type combination when a difference is determined.

11. The system as claimed in claim 9, wherein:

10 said storage device stores and provides a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a first halftone type and a reference media type and first halftone type combination;

said storage device stores and provides a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a second halftone type and a reference media type and second halftone type combination;

15 said tone-reproduction curve means generates a new tone-reproduction curve corresponding to a reference media type and second halftone type combination calibration operation; and

20 said processor updates each predetermined stored calibrated tone-reproduction curves corresponding to the second halftone type based on the newly generated tone-reproduction curve corresponding to the reference media type and second halftone type combination and the plurality of predetermined relationships between each stored

calibrated tone-reproduction curve corresponding to the second halftone type and the reference media type and second halftone type combination.

12. The system as claimed in claim 9, wherein:

5 said storage device stores and provides a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a first halftone type and a reference media type and third halftone type combination;

10 said storage device stores and provides a plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to a third halftone type and a reference media type and third halftone type combination;

 said tone-reproduction curve means generates a new tone-reproduction curve corresponding to a reference media type and third halftone type combination calibration operation; and

15 said processor updates each predetermined stored calibrated tone-reproduction curves corresponding to the third halftone type based on the newly generated tone-reproduction curve corresponding to the reference media type and third halftone type combination and the plurality of predetermined relationships between each stored calibrated tone-reproduction curve corresponding to the third halftone type and the reference media type and third halftone type combination.

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13. The system as claimed in claim 9, further comprising:

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a xerographic printing device using the updated predetermined stored calibrated tone-reproduction curves to print images.

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